

Math 1
Exam Review

The exam assesses all of the unit standards from module 1:

- **1A: expressions** Students define quantities and interpret expressions.
- **1B: units** Students understand and use units as a way of interpreting expressions.
- **1C: equations** Students solve equations and describe the process used to solve them.
- **1D: inequalities** Students solve inequalities and describe the process used to solve them.
- **1E: solutions** Students represent solutions of equations and inequalities.
- **1F: systems (graphing)** Students solve systems of linear equations by graphing.
- **1G: matrices** Students use matrices to organize information and obtain information from matrices.
- **1H: matrix arithmetic** Students understand and perform basic matrix arithmetic, including addition, subtraction, scalar multiplication, and matrix multiplication.

You may want to bring a straightedge for drawing lines. You may also want to bring colored pencils.

Some things that you will want to remember for the exam:

- When graphing the solution to an inequality in one variable that uses $<$, \leq , $>$, or \geq , if the variable is isolated and on the left hand side, then the inequality points in the direction that you should shade.
- When graphing using *any* set of axes (number line or Cartesian coordinate system), provide an appropriate scale.
- When graphing on the Cartesian coordinate system, label axes.
- When graphing more than one line/curve on the Cartesian coordinate system, provide a way to distinguish among the graphs. Methods of distinguishing include labelling each line/curve with its equation and color coding the lines/curves.